



QUALYS SECURITY CONFERENCE 2019

Vulnerability Management Detection & Response (VMDR)

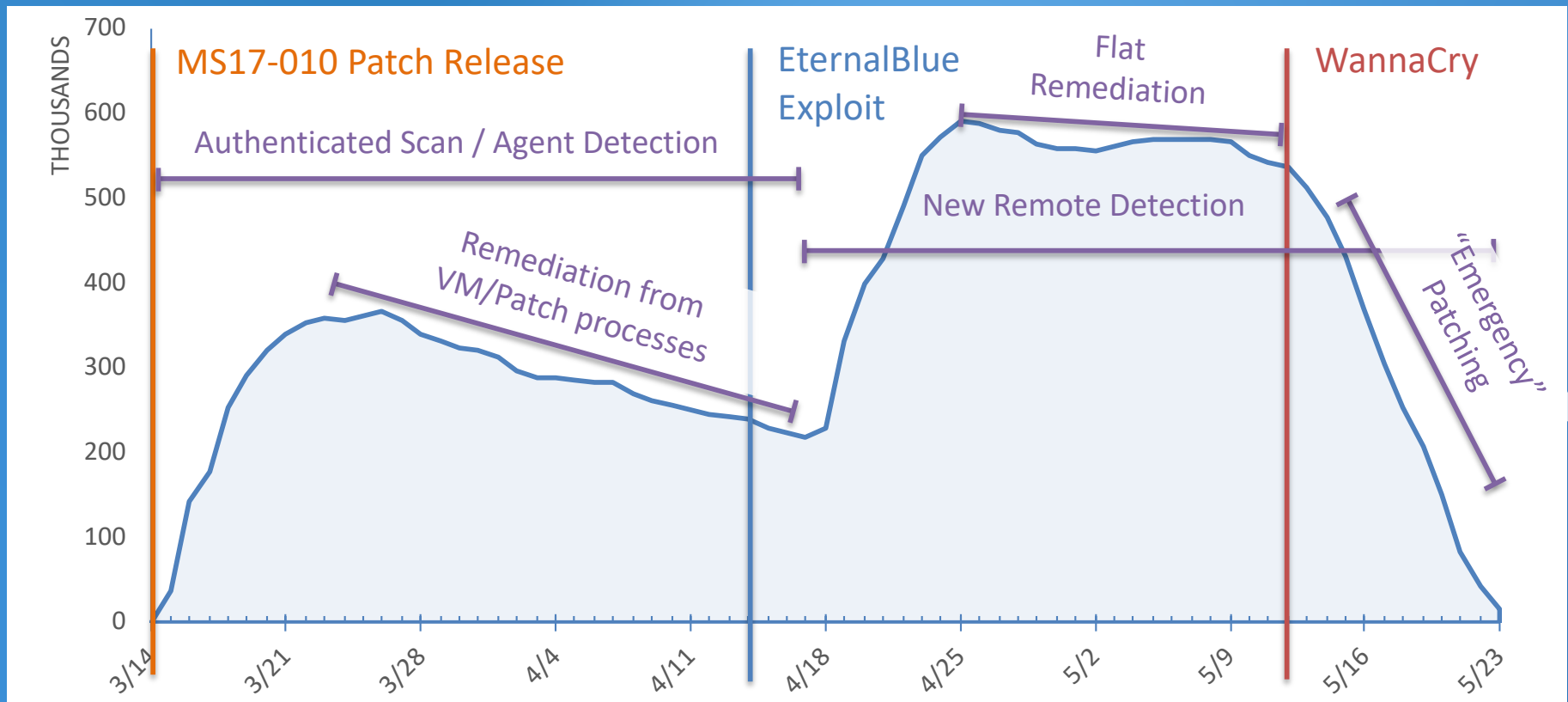
Chris Carlson
VP Strategy, Qualys, Inc.

Vulnerability Management Lifecycle





WannaCry Timeline and Remediation



Introducing  Qualys.

VMDR

Vulnerability Management, Detection and Response

One solution to Discover, Assess, Prioritize and Patch critical vulnerabilities

Asset Discovery

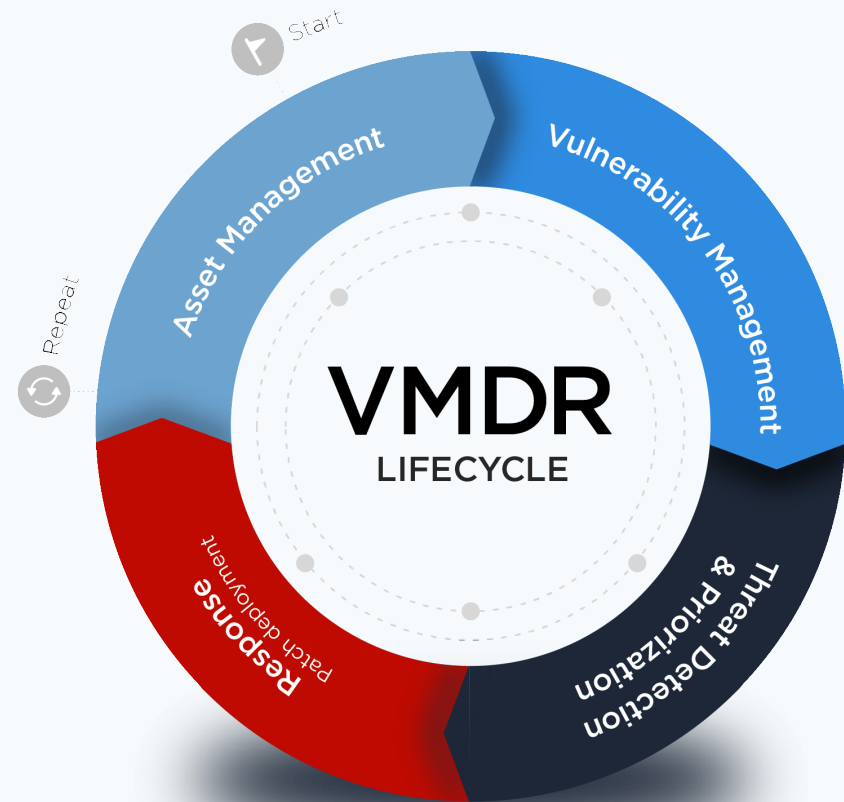
Detect known and unknown assets
Workflow to add an unmanaged asset as a managed asset

Asset Inventory

Hardware, operating system, and application inventory for all assets

Asset Normalization and Categorization

Normalize Inventory data by common attributes
Categorize by vendor, version, type

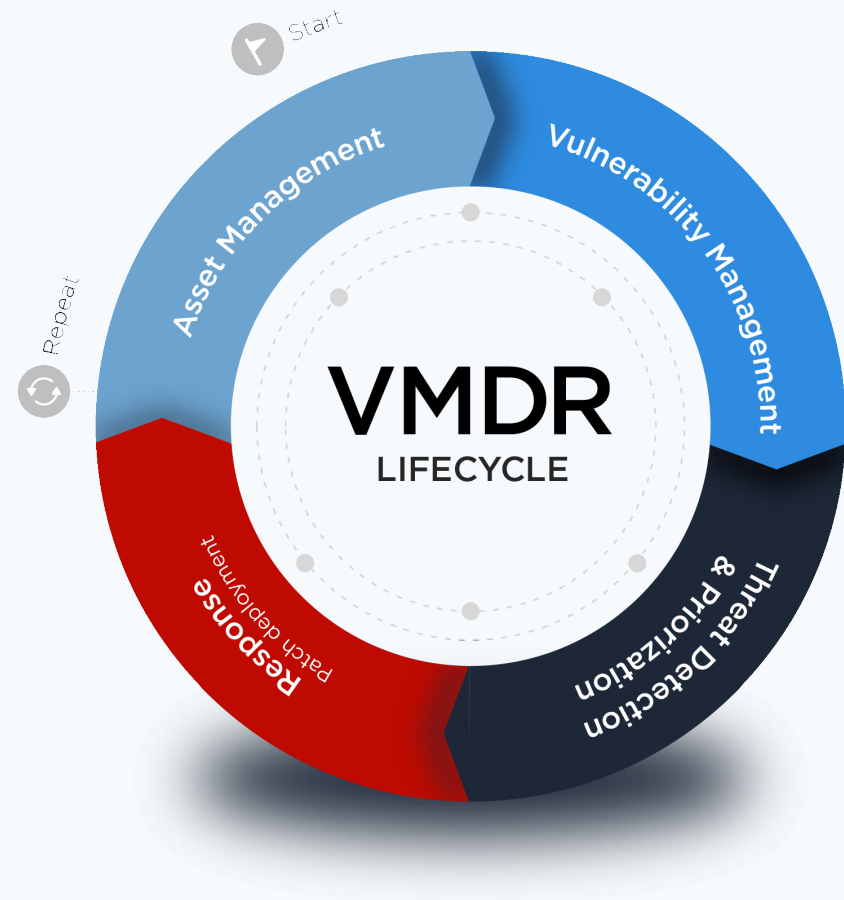


Vulnerability Management

Detect vulnerabilities by QID
CVE-to-QID mapping
CVSSv2 and CVSSv3 base scores

Security Configuration Assessment

CIS Benchmarks
Security-related
misconfigurations

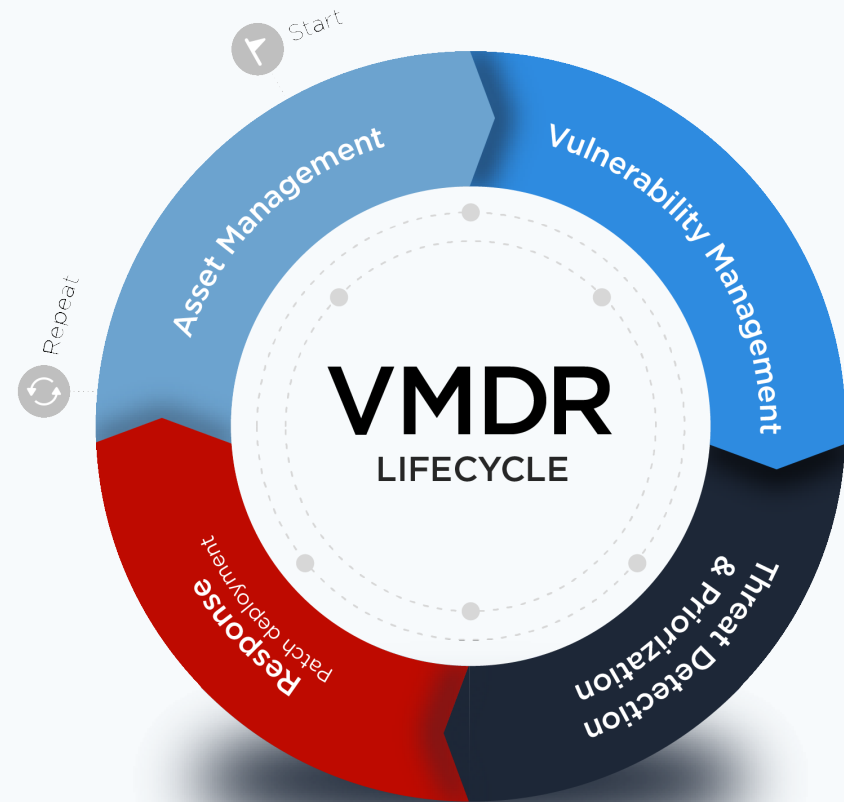


Prioritization

Using real-time threat intelligence
Real-world exploits
Proof of Concepts
Exploit categorization
Exploit severity

Machine Learning

Contextual Awareness



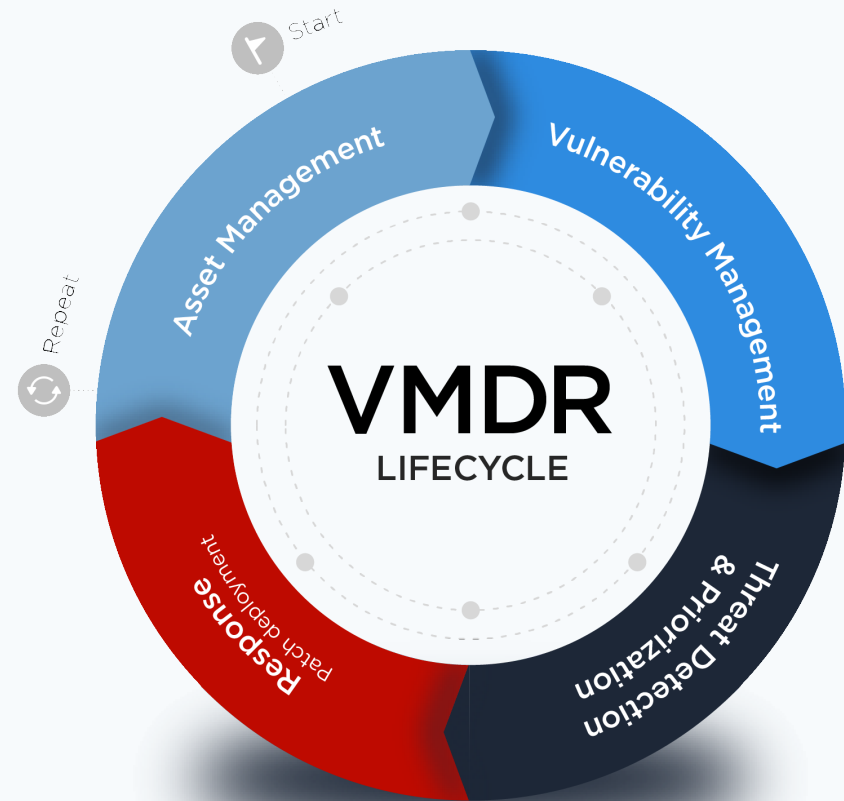
Remediation

Automatically correlate
vulnerabilities to patches

End-to-end User Interface
workflows

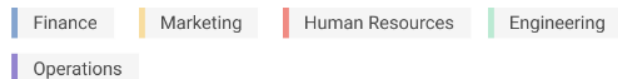
Fit-for-purpose visualizations
and recommendations

Orchestration for remediation



ASSETS

Tags



Hosts

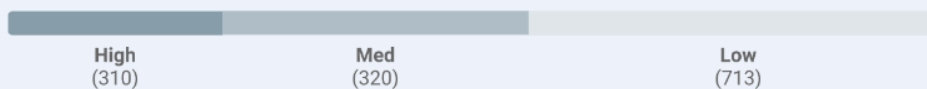
379

VULNERABILITIES

1343

Total
Vulnerabilities

CVSS Score



Service Level Agreement



Qualys Threat Prioritization

12

Zero Day

10

High Lateral Movement

12

Active Attacks

10

High Data Loss

Prioritization Engine – Machine Learning

Multi-Layer neural network

Dataset of 120,000+ vulnerabilities

132 vulnerability features

Live exploits / POCs

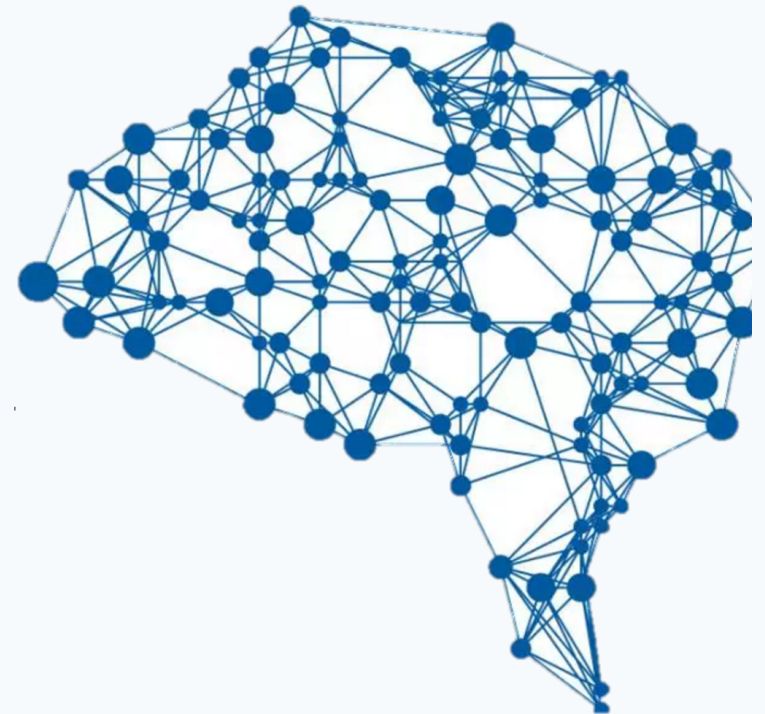
Historical threat patterns

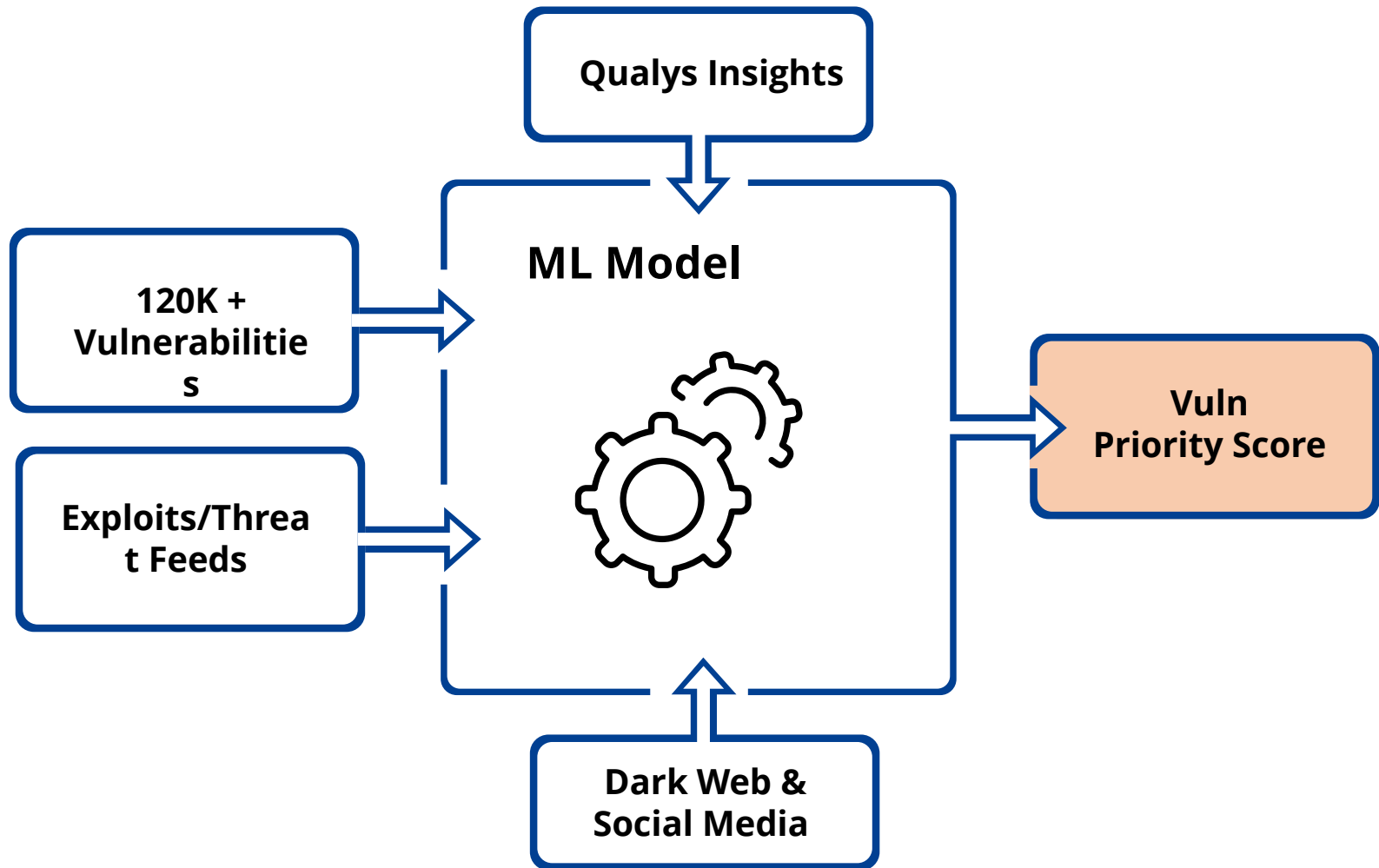
Historical vulnerable software/vendor

Dark web and social media references

Qualys security researchers

Learns new patterns and intelligence daily





Contextual Awareness

Your Network is Unique to You

External facing assets

Network reachability / cloud security groups

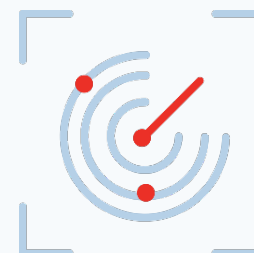
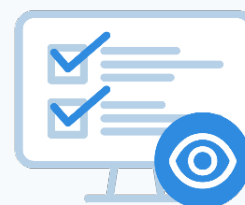
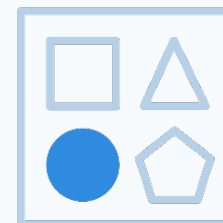
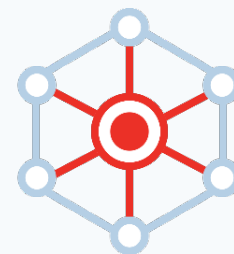
Zero-Trust Networking / BeyondCorp

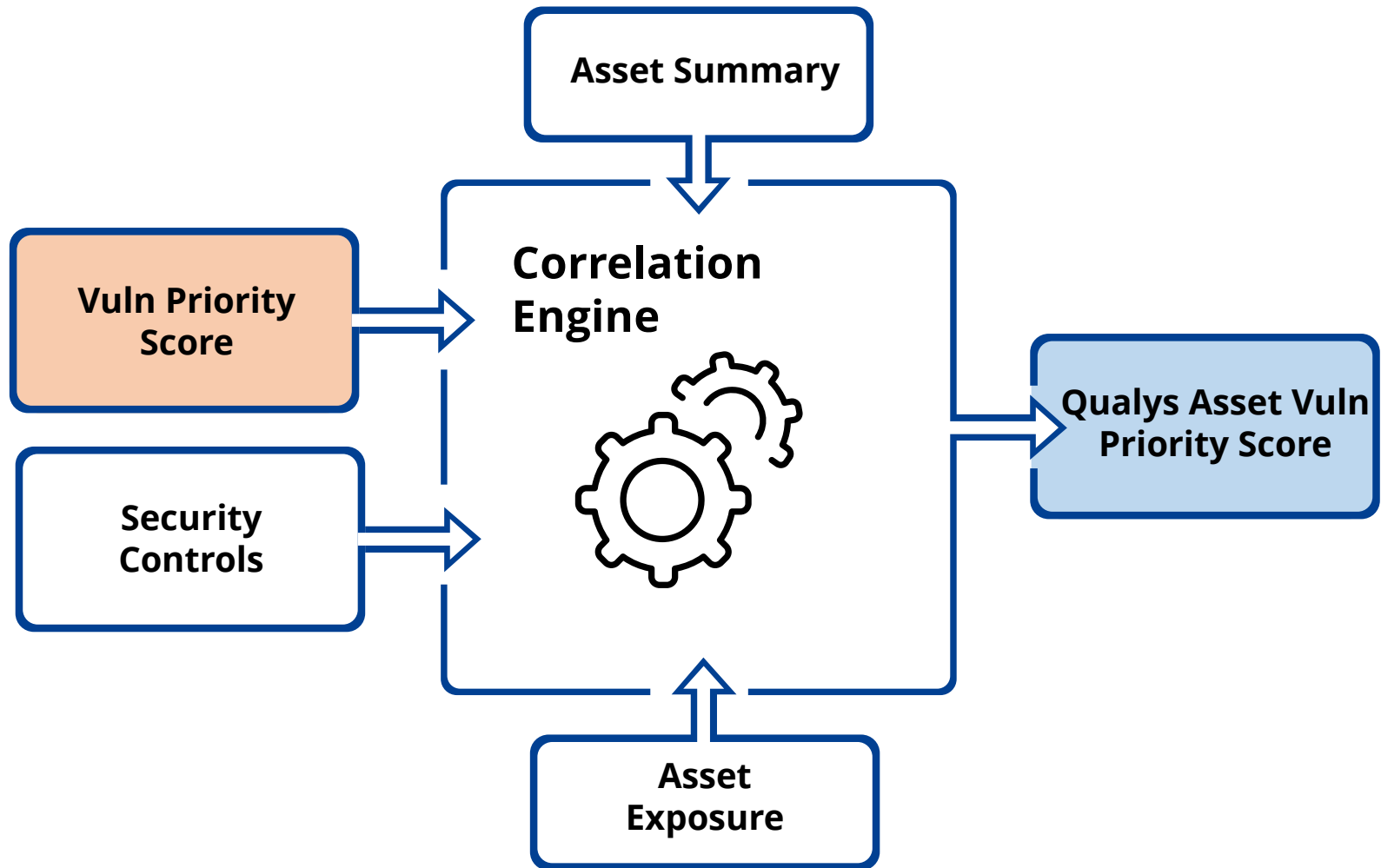
Business / customer applications

Data sensitivity and Data Access Governance

Asset system configuration

Security control validation





VMDR Comes with Much More

Unlimited Cloud Agents

Unlimited Container Sensors

Unlimited Passive Sensors

Certificate Inventory

Cloud Inventory

Container Inventory

Mobile Device Inventory

Asset Categorization

Asset Normalization

Configuration Assessment

CIS Benchmarks

Continuous Monitoring

Patch Detection and CVE

Correlation

Available January 2020

The background is a solid blue color with a white grid of small dots. Three red dots are placed on the grid: one in the upper right, one in the lower left, and one in the lower right.

VMDR Concept Demo



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Thank You

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